



Enterprise Data Warehouse and Analytics Service (EDW+AS)

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Texuna's EDW+AS offers a robust, fully managed, cloud-based solution, designed to meet sophisticated data handling, analytics, and business intelligence needs. Leveraging Texuna's expertise in cloud solutions and big data, the service integrates advanced BI tools and predictive analytics to provide actionable insights, ensuring enterprises and educational institutions maximise their data utility while minimising capital investment. The service is engineered to handle large-scale data from diverse sources, providing not only storage but also deep analytical capabilities that transform raw data into insightful, actionable intelligence.

Texuna combines a top-down workshop approach to building and conforming an enterprise data model with business leaders (demand-driven), with a bottom-up analysis of existing data feeds from target sources (supply-driven). The Enterprise Data Warehouse solution is Amazon Web Services (AWS) deployed but can also be considered for any other standards based cloud environment. The enterprise class data warehouse will flex as needs change, and is built to support slowly changing dimensions that are cleaned up and conformed over time as master data improves.

Texuna's expertise and experience with cloud solutions and open source software minimises capital investment costs and service fees. Our agile BI and business friendly project methodology help guarantee early and frequent realisation of benefits. This disciplined approach enables Texuna to offer fixed prices for projects with full confidence, ensuring delivery is on time and to budget, while providing the flexibility needed to ensure that the right priorities are in place for the project.

Features:

- Cloud-Based Solutions: Utilises AWS and open-source databases for hosting.
- Comprehensive Data Integration: Supports integration with EDW, RDBMS, and NoSQL databases.
- Advanced Data Processing: Manages ELT, data lake, and ETL with modern technologies.
- Real-Time Analytics: Enables immediate data blending and operational decision-making.
- Robust Security Measures: Ensures GDPR compliance and encryption for data security.
- Flexible Data Modeling: Supports Kimball, Inmon, and Data Vault modeling approaches.
- Business Intelligence Tools: Integrates with major BI tools for enhanced reporting.
- Scalable Architecture: Offers dynamic scaling for high-performance data clusters.
- Governance and Compliance: Provides strict data governance, lineage, and audit trails.

- Customisation and Training: bespoke implementation and comprehensive user training provided.

Benefits:

- Seamless Integration allows easy use of Excel, PowerBI, and Tableau.
- License Flexibility supports BYOL to significantly reduce operational costs.
- Real-Time Analytics blends all data types instantly for quick insights.
- Avoid Vendor Lock-In with flexible, plug-and-play architectural choices.
- Broad Connectivity offers connectors for diverse databases and data systems.
- Transparent Pricing provides simple, predictable costs across reporting options.
- Cost Efficiency ensures low operational expenses without capital expenditures.
- Advanced Modeling employs star schema and Data Vault for structure.
- Robust Security maintains compliance with top data governance standards.
- Blend All Data in Real Time and Obtain Immediate Results.

Software as a Service

Significantly cheaper hosting and storage
Simplified maintenance and administration
Fully managed resilience and backup
Easy to turn on and off

Open Source Software and Open Standards

PostgreSQL-based implementation
Connect via and PostgreSQL compliant client
Standards based SQL
MDX support via Mondrian



COTS Appliance

No engineering, coding or design experience required
Minutes to provision a 16 node working cluster
Massively parallel, massive performance
Massively scalable to petabytes

EDW Optimisation

Columnar storage for fast analytics
Smart compression to eliminate sparse storage
Automated schema awareness - Star and Snowflake

Delivery and Implementation:

In-depth workshops and interviews to understand specific data requirements, followed by the design of a tailored data architecture. Rapid provisioning of services with a focus on minimising time to value, supported by Texuna's agile project methodology and iterative deployment capabilities. Continuous engagement with client's operational staff to ensure alignment with business needs and successful adoption of the service.

Support and Service Management:

Includes backups, maintenance, monitoring, disaster recovery, and upgrades with options for customized support levels. Guarantees high availability with at least 99.9% uptime per month. Robust data governance framework ensuring data integrity, privacy, and compliance.

Commercial Terms:

Flexible pricing models with detailed service definitions available separately. Contract terms are typically a minimum of one year, with scalable options based on client requirements. Streamlined processes for both onboarding and offboarding to ensure smooth transitions and minimal operational disruption.

Enhanced Data Analytics and Business Intelligence

Integration of advanced BI tools such as Pentaho, QuickSight, PowerBI, Tableau, SAP Business Objects and others, enhancing the data analytics capabilities of the service. This includes the use of vendor or open-source components, providing flexibility and customizability to work with various data analytics platforms.

Predictive Analytics and Big Data Manipulation

Details on predictive analytics using notebook tools for R, Python and AWS SageMaker, along with full big data manipulation and analysis capabilities. This supports more accurate insights and enables the embedding of analytics into multiple secure portals and mobile apps.

Flexible Deployment and Integration

Emphasizing cloud-hosted infrastructure options over AWS, and other open platforms to ensure seamless integration with Texuna's EDW. This includes end-to-end secure cloud-hosted infrastructure-as-software delivered over diverse platforms ensuring robust data governance, audit trails, and data provenance.

Additional Support and Maintenance Details

Comprehensive backup, maintenance, disaster recovery plans, and the flexibility offered through SaaS and PaaS deployment models. All user account information is encrypted to prevent unauthorised use, and the service includes rigorous quality assurance processes and compliance with ISO standards.



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THANK YOU